

CLAIMS

1. (PREVIOUSLY PRESENTED) A medical device having a surface coated with a composition comprising a lectin, wherein:

(a) the medical device includes a metallic material;

(b) the lectin binds a compound produced by a microorganism capable of forming a biofilm on the surface of the medical device so as to enhance attachment of the microorganism to the composition comprising the lectin; and

(c) the lectin is disposed within a biodegradable polymer composition that can slough away from the surface of the medical device when the lectin is bound to the compound produced by a microorganism,

so as to inhibit formation of a biofilm on the surface of the medical device.

2. (CANCELLED)

3. (ORIGINAL) The medical device of claim 2, wherein the biodegradable polymer is a biocompatible polymer that degrades at a controllable rate within an in vivo environment.

4. (ORIGINAL) The medical device of claim 1, wherein the composition further comprises at least one agent that inhibits the growth of the microorganism.

5. (ORIGINAL) The medical device of claim 4, wherein the agent is an antibiotic or an antifungal agent.

6. (ORIGINAL) The medical device of claim 1, wherein the lectin binds to a compound produced by a microorganism selected from the group consisting of *Pseudomonas aeruginosa*, *Streptococcus pneumoniae*, *Streptococcus viridans*, *Haemophilus influenzae*, *Escherichia coli*, *Staphylococcus aureus*, *Staphylococcus epidermidis* and *Candida albicans*.

7. (ORIGINAL) The medical device of claim 1, wherein the lectin is wheat germ agglutinin or concanavalin A.

8. (ORIGINAL) The medical device of claim 1, wherein the device is implantable.

9. (ORIGINAL) The medical device of claim 8, wherein the device comprises a drug delivery pump, a pacemaker, a cochlear implant, a shunt, a catheter or a cannula.

10-35. (CANCELLED)

36. (PREVIOUSLY PRESENTED) The medical device of claim 1, wherein the metallic material is titanium or stainless steel.

37. (PREVIOUSLY PRESENTED) The medical device of claim 1, wherein the medical device further includes a biostable polymeric material.

38. (PREVIOUSLY PRESENTED) A medical device having a surface coated with a composition comprising a lectin, wherein:

(a) the surface of the medical device includes a biostable polymeric material;

(b) the lectin binds a compound produced by a microorganism capable of forming a biofilm on the surface of the medical device so as to enhance attachment of the microorganism to the composition comprising the lectin; and

(c) the lectin is disposed within a biodegradable polymer composition that can slough away from the biostable polymeric material when the lectin is bound to the compound produced by a microorganism,

so as to inhibit formation of a biofilm on the surface of the medical device.

39. (PREVIOUSLY PRESENTED) The medical device of claim 38, wherein the biostable polymeric material comprises polytetrafluoroethylene.

40. (PREVIOUSLY PRESENTED) The medical device of claim 38, wherein the medical device further includes a metallic material.

41. (PREVIOUSLY PRESENTED) The medical device of claim 1 or claim 38, wherein the composition comprising the lectin is disposed on a region of the device having a mechanical structure that is compatible with the adherence of microorganisms.